

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for annotating a computer program, the method comprising:

displaying program code for the computer program in a user interface comprising a code display window;

linking a plurality of ~~at least one~~ elements of said displayed program code to a data file, said data file comprising implementation instructions for said plurality of ~~at least one~~ elements of the computer program, wherein the implementation instructions include program code comments, a first directive that directs implementation for a variable in the program code in a register, and a second directive that directs implementation of a call to a function as in-line code, and at least one of the elements of program code is linked to comments, at least one of the elements of program code is linked to the first directive, and at least one of the elements is linked to the second directive; and

responsive to a query of one of said at least one linked element of the computer program, displaying a corresponding implementation instruction for said queried element in said user interface.

2. (Original) The method according to claim 1, wherein said step of displaying program code in said code display window further comprises displaying said program code in a text editor viewable within said code display window.

3. (Original) The method according to claim 2, further comprising responsive to said query of one of said at least one linked element, inputting an implementation instruction for said queried element in said implementation display window.

4. (Original) The method according to claim 3, further comprising storing said inputted implementation instruction in said data file.

5. (Original) The method according to claim 1, wherein said step of displaying said corresponding implementation instruction further comprises displaying said corresponding implementation instruction in an implementation display window of said user interface.

6. (Original) The method according to claim 3, wherein said step of displaying said corresponding implementation instruction further comprises the step of displaying said implementation instruction in said implementation display window of said user interface without obscuring the program code.

7. (Original) The method according to claim 1, further comprising the step of initiating said query of one of said at least one linked element by selecting said linked element displayed in said code display window.

Claim 8. (Cancelled)

9. (Original) The method according to claim 1, wherein said at least one element is selected from the group consisting of functions, variables, and expressions.

10. (Currently Amended) A computer code development system for annotating computer program code, the system comprising:

- a user interface having a code display window for displaying computer program code;

- an editor for editing displayed computer program code in said code display window; and

- a data file comprising a plurality of at least one implementation instructions linked to a plurality of at least one elements of the computer program code, wherein the implementation instructions include program code comments, a first directive that directs implementation for a variable in the program code in a register, and a second directive that directs implementation of a call to a function as in-line code, and at least one of the elements of program code is linked to comments, at least one of the

elements of program code is linked to the first directive, and at least one of the elements is linked to the second directive, wherein the user interface is adapted to display in said user interface, responsive to a query of one of said at least one linked element of the computer program, a corresponding implementation instruction for said queried element.

11. (Original) The computer code development system according to claim 10, wherein said user interface further comprises an implementation display window for displaying said at least one implementation instruction.

12. (Original) The computer code development system according to claim 10, further comprising a linker, said linker for linking said at least one program code element to said at least one implementation instruction in said data file.

13. (Original) The computer code development system according to claim 10, wherein said at least one element of the computer program code is selected from the group consisting of functions, variables, grouped functions, grouped variables, expressions, implementation instructions and any combination thereof.

14. (Original) The computer code development system according to claim 10, wherein said implementation development window is a pop-up window accessible by selecting at least one of said at least one element of the computer program code from said code display window.

15. (Original) The computer code development system according to claim 14, wherein said implementation development window and said code display window are concurrently viewable.

16. (Original) The computer code development system according to claim 10, wherein said implementation development window does not obscure said code display window when concurrently viewed.

17. (Currently Amended) A user interface for annotating computer program code, the user interface comprising:

a code display window for displaying the computer program code, said code display window having an editor for editing the computer program code;

an associated data file comprising a plurality of ~~at least one~~ implementation instructions linked to a plurality of ~~at least one~~ elements of the computer program code, wherein the implementation instructions include program code comments, a first directive that directs implementation for a variable in the program code in a register, and a second directive that directs implementation of a call to a function as in-line code, and at least one of the elements of program code is linked to comments, at least one of the elements of program code is linked to the first directive, and at least one of the elements is linked to the second directive; and

an implementation instruction window for displaying an ~~said at least one~~ implementation instruction in said data file responsive to a query of one of the plurality of ~~said at least one~~ linked elements of the computer program.

18. (Original) The user interface according to claim 17, further comprising a linker for linking said at least one program code element to said at least one implementation instruction in said data file.

19. (Original) The user interface according to claim 18, wherein said implementation development window and said code display window are concurrently viewable.

20. (Original) The user interface according to claim 19, wherein said implementation development window can be configured so that said code display window and said implementation development window can be completely viewed when concurrently displayed.

21. (Original) The user interface according to claim 19, wherein said implementation development window can be configured so that said code display window is partially

obscured by said implementation development window when concurrently displayed.

22. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

displaying program code for the computer program in a user interface comprising a code display window for annotating a computer program;

linking a plurality of ~~at least one~~ elements of said displayed program code to a data file, said data file comprising implementation instructions for said ~~at least one~~ plurality of elements of the computer program, wherein the implementation instructions include program code comments, a first directive that directs implementation for a variable in the program code in a register, and a second directive that directs implementation of a call to a function as in-line code, and at least one of the elements of program code is linked to comments, at least one of the elements of program code is linked to the first directive, and at least one of the elements is linked to the second directive; and

responsive to a query of one of said at least one linked element of the computer program, displaying a corresponding implementation instruction for said queried element in said user interface.

23. (Original) The machine readable storage according to claim 22, wherein said step of displaying program code in said code display window further comprises displaying said program code in a text editor viewable within said code display window.

24. (Original) The machine readable storage according to claim 23, further comprising responsive to said query of one of said at least one linked element, inputting an implementation instruction for said queried element in said implementation display window.

25. (Original) The machine readable storage according to claim 24, further comprising storing said inputted implementation instruction in said data file.

26. (Original) The machine readable storage according to claim 22, wherein said step of displaying said corresponding implementation instruction further comprises displaying said corresponding implementation instruction in an implementation display window of said user interface.

27. (Original) The machine readable storage according to claim 24, wherein said step of displaying said corresponding implementation instruction further comprises the step of displaying said implementation instruction in said implementation display window of said user interface without obscuring the program code.

28. (Original) The machine readable storage according to claim 22, further comprising the step of initiating said query of one of said at least one linked element by selecting said linked element displayed in said code display window.

Claim 29. (Cancelled)

30. (Original) The machine readable storage according to claim 22, wherein said at least one element is selected from the group consisting of functions, variables and expressions.

Claims 31-32. (Cancelled)

33. (Currently Amended) A method for development of computer program code, comprising:

displaying a portion of computer program code in a first portion of a display;
storing a plurality of ~~one or more~~ implementation instructions in association with ~~an~~ a plurality of elements of the computer program code in response to ~~a first user~~ selections of ~~a first~~ the plurality of elements in the computer program code and a user input of the plurality of ~~one or more~~ implementation instructions, wherein the implementation instructions include program code comments, a first directive that

directs implementation for a variable in the program code in a register, and a second directive that directs implementation of a call to a function as in-line code, and at least one of the elements of program code is linked to comments, at least one of the elements of program code is linked to the first directive, and at least one of the elements is linked to the second directive;

displaying in a second portion of the display that is separate from the first portion of the display ~~the one or more~~ an implementation instruction[[s]] associated with ~~the~~ a first element in the computer program code in response to a ~~second~~ user selection of the first element.

34. (Currently Amended) The method of claim 33, further comprising updating the portion of program code in the first portion of the display in response to a ~~third~~ user input.

35. (Currently Amended) The method of claim 33, further comprising reading a ~~the one more~~ stored implementation instructions ~~associated with~~ linked to an ~~the first~~ element in the computer program code in response to a ~~the second~~ user ~~input being~~ selection of the ~~first~~ element from the first portion of the display.

Claim 36. (Cancelled)

37. (Currently Amended) The method of claim 33, wherein the ~~first~~ plurality of elements include ~~is selected from the group consisting of~~ functions, variables, and expressions.

38. (New) The method of claim 1, wherein the implementation instructions further include a third directive that directs an un-scrolled implementation of a loop in the program code, and at least one of the elements of program code is linked to the third directive.

39. (New) The system of claim 10, wherein the implementation instructions further include a third directive that directs an un-scrolled implementation of a loop in the program code, and at least one of the elements of program code is linked to the third directive.

40. (New) The user interface of claim 17, wherein the implementation instructions further include a third directive that directs an un-scrolled implementation of a loop in the program code, and at least one of the elements of program code is linked to the third directive.

41. (New) The machine readable storage of claim 22, wherein the implementation instructions further include a third directive that directs an un-scrolled implementation of a loop in the program code, and at least one of the elements of program code is linked to the third directive.